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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,789	01/21/2005	Yuji Sato	26487U	1960
20529 7590 THE NATH LAW GROUP 112 South West Street Alexandria, VA 22314			EXAMINER SCHWARTZ, DARREN B	
			ART UNIT 2435	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/521,789

**Applicant(s)**

SATO ET AL.

**Examiner**

DARREN SCHWARTZ

**Art Unit**

2435

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 March 2009 and 09 April 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10, 12-18, 20 and 21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10, 12-18, 20 and 21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

Applicant amends claims 1, 7, 9, 17, 18 and 20.

Claims 1-10, 12-18, 20 and 21 are presented for examination.

#### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09 April 2009 has been entered.

#### ***Response to Arguments***

1. In light of the amendments to the claims, the claim objection is withdrawn, however, amendments have necessitated new objections.
2. In light of the amendments to the claims, the claim rejections under 35 U.S.C. 101 and 35 U.S.C. 112, second paragraph are withdrawn.

Applicant's arguments with respect to claims 1-10, 12-18, 20 and 21 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Claim Objections***

Claim 7 is objected to because of the following informalities: Claim 7 has been amended to read "... a watermark extraction apparatus, wherein; said watermark insertion apparatus..."and it is believed the semi-colon should be removed.

Appropriate correction is required.

Claim 6 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The claims listed incorporate additional features of the watermark insertion/extraction apparatus without further limiting the subject matter of the claims upon which they incorporate features of claim 1.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-10 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al (U.S. Pat 7287166 B1), hereinafter referred to as Chang, in view of Cousot et al (U.S. Pat Pub 2006/0010430 A1), hereinafter referred to as Cousot. The Examiner has previously provided the provisional application 60/396186 filed 16 July 2002.

Re claim 1: Chang teaches a watermark insertion apparatus comprising:

a watermark generation section that generates in a program a watermark that differs for each of a plurality of distribution destinations of said program (col 55, lines 18-28; col 56, lines 18-28);

However, Cousot teaches a first assignment expression embedding section that defines a plurality of functions that input the watermark and output predetermined constants, for each distribution destination (§87), said plurality of functions and said predetermined constants being associated in a one to one correspondence (§97; §124; §128; §170), and embeds in said program the watermark and a plurality of expressions that assign each of said plurality of functions to one of a plurality of variables (§134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170), said plurality of functions and said plurality of variables being associated in a one to one correspondence (§97; §124; §128; §134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Chang with the teachings of Cousot, for the purpose of uniquely marking programming code without altering the program code semantics.

The combination of Chang and Cousot teaches:

a code insertion section that sets as a watermark verification code a decision statement of a conditional branch for deciding whether each of said plurality of variables and each of said plurality of constants are equal (Chang: col 42, lines 52-63: particularly code line 7), and halting said program if each of said plurality of variables and each of said plurality of constants are not equal (Chang: col 18, lines 24-61), and that inserts in said program said watermark verification code which, if said watermark or said

watermark verification code is tampered, does not operate said program properly and which comprises same content regardless of said plurality of distribution destinations (Chang: col 20, lines 24-50; col 56, lines 29-50; col 57, lines 39 – 56; col 58, lines 5-7);

a second assignment expression embedding section that generates another function that outputs another constant such that a sum of said another constant and a sum of said plurality of constants is zero and embeds in said program an expression that assigns said another function to another variable (Chang: col 42, line 41 – col 43, line 45); and

an addition section that generates and inserts as said verification code a code that adds a total value of said another variable and said sum of said plurality of variables to said decision statement of said conditional branching in said program such that said decision statement of said program of a decision branch is not affected if said watermark and the watermark verification code are not tampered (Chang: col 55, lines 18-28; col 56, lines 51-67; col 57, lines 26-56).

Re claim 2: The combination of Chang and Cousot teaches said watermark is generated from ID information that uniquely determines a program distribution destination (Chang: col 1, lines 35-38 and lines 45-49).

Re claim 3: The combination of Chang and Cousot teaches a function insertion section that defines a function that outputs a predetermined constant from said watermark and inserts an expression that assigns said function to a variable in said program (Chang: col 5, lines 26-47); wherein said watermark verification code is a conditional branch that determines whether said variable and said constant are equal,

and when said variable and said constant are not equal halts said program (Chang: col 17, lines 25-35; col 18, lines 36-43; col 42, lines 52-63); and said watermark verification code is made identical regardless of said distribution destination (Chang: col 5, lines 1-25; col 8, lines 5-21; col 9, line 57 – col 10, line 22).

Re claim 4: The combination of Chang and Cousot teaches watermark verification code is necessary for said program to be made to operate correctly (Chang: Abstract; Cousot: ¶¶103, ¶¶269).

Re claim 5: The combination of Chang and Cousot teaches said watermark verification code has inserted a calculation expression that does not affect a decision statement of a decision branch generated from said watermark in said decision branch extracted from said program (Cousot: see on page 18, “public class Fibonacci” and page 19, “public class fibonacciWatermark;” the watermarked Fibonacci class has no decision statements that are affected by the watermarking).

Re claim 6: The combination of Chang and Cousot teaches a program input section that inputs a program in which the watermark insertion apparatus according to claim 1 has inserted said watermark and said watermark verification code (Cousot: Abstract); and

a watermark detection section that extracts said watermark from said program and generates ID information that uniquely identifies said distribution destination based on said watermark (Cousot: ¶¶6, ¶¶51, ¶¶82, ¶¶170, ¶¶212);

wherein a distribution destination is identified based on generated said ID information (Cousot: ¶¶23, ¶¶39, ¶¶106, ¶¶170).

Re claim 7: Chang teaches a program illegal distribution prevention system comprising a watermark insertion apparatus, and a watermark extraction apparatus (col 3, lines 57-66), wherein said watermark insertion apparatus comprises:

a watermark generation section that generates watermark that differs for each of a plurality of distribution destination of a program (col 55, lines 18-28; col 56, lines 18-28).

However, a first assignment expression embedding section that defines a plurality of functions that input the watermark and output predetermined constants for each distribution destination (§§87), said plurality of functions and said predetermined constants being associated in a one to one correspondence (§§97; §124; §128; §170), and embeds in said program the watermark and a plurality of expressions that assign each of said plurality of functions to one of a plurality of variables (§134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170), said plurality of functions and said plurality of variables being associated in a one to one correspondence (§§97; §124; §128; §134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Chang with the teachings of Cousot, for the purpose of uniquely marking programming code without altering the program code semantics.

The combination of Chang and Cousot teaches:

a code insertion section that sets as a watermark verification code a decision statement of a conditional branch for deciding whether each of said plurality of variables and each of said plurality of constants are equal (Chang: col 42, lines 52-63: particularly code line 7), and halting said program if each of said plurality of variables and each of said plurality of constants are not equal (Chang: col 18, lines 24-61), and that inserts in said program said watermark verification code which, if said watermark or said watermark verification code is tampered, does not operate said program properly and which comprises same content regardless of said plurality of distribution destinations (Chang: col 20, lines 24-50; col 56, lines 29-50; col 57, lines 39 – 56; col 58, lines 5-7);

a second assignment expression embedding section that generates another function that outputs another constant such that a sum of said another constant and a sum of said plurality of constants is zero and embeds in said program an expression that assigns said another function to another variable (Chang: col 42, line 41 – col 43, line 45); and

an addition section that generates and inserts as said verification code a code that adds a total value of the another variable and said sum of said plurality of variables to said decision statement of said conditional branching in said program such that said decision statement of said program of a decision branch is not affected if said watermark and watermark verification code are not tampered (Chang: col 55, lines 18-28; col 56, lines 51-67; col 57, lines 26-56); and said watermark extraction apparatus comprises:

a program input section that inputs a program in which the watermark insertion apparatus has inserted said watermark and said watermark verification code (Chang: col 55, lines 18-28; col 56, lines 29-67); and

a watermark detection section that extracts said watermark from said program and generates ID information that uniquely identifies said distribution destination based on said watermark; and a distribution destination is identified based on said generated said ID information in said watermark extraction apparatus (Chang: col 55, lines 29-40).

Re claim 8: The combination of Chang and Cousot teaches said watermark insertion apparatus is provided at said distribution destination (Chang: col 8, lines 5-44).

Re claim 9: Claim 9 is rejected under similar grounds as those provided for claim 7.

Re claim 10: The combination of Chang and Cousot teaches inserting in said program said watermark that differs for each program distribution destination (Chang: col 55, lines 18-28; col 56, lines 18-28); and converting a periphery of an insertion location of said watermark or said entire program while maintaining specifications of said program (Chang: col 40, line 66 – col 41, line 14).

Re claim 17: Chang teaches a watermark extraction apparatus comprising:  
a program input section that inputs a program in which the watermark insertion apparatus comprises:

a watermark insertion section that inserts in a program a watermark that differs for each of a plurality of distribution destinations of said program (col 55, lines 18-28; col 56, lines 18-28);

a first assignment expression embedding section that defines a plurality of functions that input the watermark and output predetermined constants for each distribution destination (§87), said plurality of functions and said predetermined constants being associated in a one to one correspondence (§97; §124; §128; §170), and embeds in said program the watermark and a plurality of expressions that assign each of said plurality of functions to one of a plurality of variables (§134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170), said plurality of functions and said plurality of variables being associated in a one to one correspondence (§97; §124; §128; §134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Chang with the teachings of Cousot, for the purpose of uniquely marking programming code without altering the program code semantics.

The combination of Chang and Cousot teaches:

a code insertion section that sets as a watermark verification code a decision statement of a conditional branch for deciding whether each of said plurality of variables and each of said plurality of constants are equal (Chang: col 42, lines 52-63: particularly code line 7), and halting said program if each of a plurality of variables are not equal (Chang: col 18, lines 24-61), and that inserts in said program said watermark verification code which, if said watermark or said watermark verification code is tampered, does not

operate said program properly and which comprises same content regardless of said plurality of distribution destinations (Chang: col 20, lines 24-50; col 56, lines 29-50; col 57, lines 39 – 56; col 58, lines 5-7);

a second assignment expression embedding section that generates another function that outputs another constant such that a sum of said another constant and a sum of said plurality of constants is zero and embeds in said program an expression that assigns said another function to another variable (Chang: col 42, line 41 – col 43, line 45);

an addition section that generates and inserts and inserts as said verification code a code that adds a total value of said another variable and said sum of said plurality of variables to said decision statement of said conditional branching in said program such that said decision statement of said program of a decision branch is not affected if said watermark and watermark verification code are not tampered (Chang: col 55, lines 18-28; col 56, lines 51-67; col 57, lines 26-56).

a watermark insertion section that inserts in said program said watermark that differs for each program distribution destination (Chang: col 55, lines 18-28; col 56, lines 18-28); and

a conversion section that converts a part other than a location at which said watermark is inserted while maintaining specifications of said program (Chang: col 40, line 66 – col 41, line 14); and

a watermark detection section that extracts said watermark from said program; wherein a distribution destination is identified based on extracted said watermark (Chang: col 55, lines 29-40).

Re claim 18: Chang teaches a watermark extraction apparatus comprising: a program input section that inputs a program in which the watermark insertion apparatus comprises:

a watermark insertion section that inserts in a program watermark that differs for each of a plurality of distribution destinations of said program (col 55, lines 18-28; col 56, lines 18-28);

However, Cousot teaches a first assignment expression embedding section that defines a plurality of functions that input the watermark and output predetermined constants for each distribution destination (§§87), said plurality of functions and said predetermined constants being associated in a one to one correspondence (§§97; §124; §128; §170), and embeds in said program the watermark and a plurality of expressions that assign each of said plurality of functions to one of a plurality of variables (§§134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170), said plurality of functions and said plurality of variables being associated in a one to one correspondence (§§97; §124; §128; §134 and "public class Fibonacci;" right column of page 7: "j equals 2507 in conjugate space..." and "k equals 3012 in conjugate space;" §170).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Chang with the teachings of

Cousot, for the purpose of uniquely marking programming code without altering the program code semantics.

The combination of Chang and Cousot teaches:

a code insertion section that sets as a watermark verification code a decision statement of a conditional branch for deciding whether each of said plurality of variables and each of said plurality of constants are equal (Chang: col 42, lines 52-63: particularly code line 7), and halting said program if each of a plurality of variables are not equal (Chang: col 18, lines 24-61), and that inserts in said program said watermark verification code which, if said watermark or said watermark verification code is tampered, does not operate said plurality properly and which comprises same content regardless of said plurality of distribution destinations (Chang: col 20, lines 24-50; col 56, lines 29-50; col 57, lines 39 – 56; col 58, lines 5-7);

a second assignment expression embedding section that generates another function that outputs another constant such that a sum of said another constant and a sum of said plurality of constants is zero and embeds in said program an expression that assigns said another function to another variable (Chang: col 42, line 41 - col 43, line 19);

an addition section that generates and inserts and inserts as said verification code a code that adds a total value of said another variable and said sum of said plurality of variables to said decision statement of said conditional branching in said program such that said decision statement of said program of a decision branch is not

affected if said watermark and watermark verification code are not tampered (Chang: col 55, lines 18-28; col 56, lines 51-67; col 57, lines 26-56)

a watermark insertion section that inserts in said program said watermark that differs for each program distribution destination (Chang: col 55, lines 18-28; col 56, lines 18-28); and

a conversion section that converts a part other than a location at which said watermark is inserted while maintaining specifications of said program (Chang: col 40, line 66 – col 41, line 14); and

a watermark detection section that obtains said identification information, identifies a watermark insertion location from said identification information (Chang: col 55, lines 29-40), and

extracts said watermark from only identified said watermark insertion location; wherein a distribution destination is identified based on extracted said watermark (Chang: col 55, lines 55-57), and

wherein said identification information is a method name or line number (Chang: col 25, lines 17-33).

4. Claims 12-16 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al (U.S. Pat 7287166 B1), hereinafter referred to as Chang, in view of Cousot et al (U.S. Pat Pub 2006/0010430 A1), hereinafter referred to as Cousot, in further view of Horning et al (U.S. Pat Pub 2007/0234070 A1), hereinafter referred to as Horning.

Re claim 12: The combination of Chang and Cousot teaches all the limitations of claim 1.

However, Horning teaches a watermark insertion section that inserts in a program watermark that differs for each program distribution destination (§606); and a conversion section that converts a part other than a location at which said watermark is inserted while maintaining specifications of said program (§610-§611).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Chang and Cousot with the teachings of Horning, for the purpose of providing executables that are watermarked and obfuscated. It is known in the art of generating tamper-resistant executables to use watermarks and code obfuscation for the purpose of armoring executables.

Re claim 13: The combination of Chang, Cousot and Horning teaches said conversion section inserts an execution code pair that does not affect specifications in a part other than a location at which said watermark is inserted (Horning: ¶18, ¶151, ¶610-¶611).

Re claim 14: The combination of Chang, Cousot and Horning teaches identification information is stored that indicates an insertion location of said watermark (Horning: Fig 37A, ¶615-¶617).

Re claim 15: The combination of Chang, Cousot and Horning teaches said identification information is a method name or line number (Chang: col 25, lines 17-33).

Re claim 16: The combination of Chang, Cousot and Horning teaches said conversion section performs obfuscating so that specifications are not affected in a part other than a location at which said watermark is inserted (Horning: ¶¶606, ¶¶610-¶¶611).

Re claim 20: The combination of Chang, Cousot and Horning teaches said conversion section converts a sequence of a part that is a part other than a location at which said watermark is inserted and is a part that does not affect specifications even if said sequence is changed (Horning: ¶¶606, ¶¶610-¶¶611).

5. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al (U.S. Pat 7287166 B1), hereinafter referred to as Chang, Cousot et al (U.S. Pat Pub 2006/0010430 A1), hereinafter referred to as Cousot and Horning et al (U.S. Pat Pub 2007/0234070 A1), hereinafter referred to as Horning, in view of Davidson et al (U.S. Pat 5559884 A), hereinafter referred to as Davidson.

Re claim 21: The combination of Chang, Cousot and Horning teaches all the limitations of claim 20 as previously discussed.

However Davidson teaches historical information [execution flow] on a part that does not affect said specifications is held, and using said historical information [execution flow], conversion of a part that does not affect said specifications is made to differ for each distribution destination (whole Abstract; col 2, lines 61-67).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Chang and Horning with the teachings of Davidson, for the purpose of simultaneously obfuscating/scrambling

executable program code and uniquely watermarking said executable program code based on said obfuscation while maintaining program semantics. All references are analogous art as all references teach the protection and watermarking of executable program code.

### ***Conclusion***

**Examiner's Note:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the text of the passage taught by the prior art or disclosed by the examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARREN SCHWARTZ whose telephone number is (571)270-3850. The examiner can normally be reached on 7am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571)272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. S./  
Examiner, Art Unit 2435  
/Kimyen Vu/  
Supervisory Patent Examiner, Art Unit 2435